

L Number	Hits	Search Text	DB	Time stamp
1	534	73/800.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
2	718	33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
3	130	73/862.324.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
4	142	73/862.325.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:34
6	17	((rotat\$4 turning) near4 (shaft rod bar) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))) and (73/800.ccls. 33/706.ccls. 73/862.324.ccls. 73/862.325.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:09
7	713	((rotat\$4 turning torque) near4 (shaft rod bar) near6 (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:11
8	114	((rotat\$4 turning torque) near4 (shaft rod bar) near6 (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4) near4 (shaft rod bar))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:30
9	114	((rotat\$4 turning torque) near4 (shaft rod bar) near6 (groove furrow channel indent\$4 depression gap dent)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4) near4 (shaft rod bar))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 13:00
48	3	4112746.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:59
50	1	((rotat\$4 turning torque) near4 (shaft rod bar) near6 (groove furrow channel indent\$4 depression gap dent)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4) near4 (shaft rod bar) near6 pulse)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 13:00
51	2	((shaft rod bar) near6 (groove furrow channel indent\$4 depression gap dent)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4) near4 (shaft rod bar) near6 pulse)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 13:06
-	474	73/800.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33

-	280	((rotat\$4 turning) near4 (shaft rod bar) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:07
-	28	((rotat\$4 turning) near4 (shaft rod bar) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))).clm. and ((eddy near2 current) (capacitance near2 gap) photoelectric)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/10 20:13
-	28	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))).clm. and ((eddy near2 current) (capacitance near2 gap) photoelectric)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/20 16:48
-	464	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/10 20:27
-	109	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 10:05
-	41	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4)) and 73/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/10 20:32
-	55	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (length\$6 elongat\$4 exten\$4 disten\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4)) and 73/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:25
-	42	((rotat\$4 turning) near4 (shaft rod bar)) near9 (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (length\$6 elongat\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 10:20
-	5	((rotat\$4 turning) near4 (shaft rod bar)) near9 (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (length\$6 elongat\$4 stretch\$4) near4 (chang\$4 variati\$4 alterat\$4 differen\$4)) and ((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 10:56
-	6	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (length\$6 elongat\$4 exten\$4 disten\$4 stretch\$4))) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:36
-	55	((rotat\$4 turning) near4 (shaft rod bar)) and (groove furrow channel indent\$4 depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:38
-	4	((rotat\$4 turning) near4 (shaft rod bar)) near6 (groove furrow channel indent\$4 depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:39

-	6	((rotat\$4 turning) near4 (shaft rod bar)) near6 (groove furrow channel indent\$4 depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))) and 73/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:44
-	11	((rotat\$4 turning) near4 (shaft rod bar)) near6 (groove furrow channel indent\$4 projection depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and (((eddy near2 current) (capacitance near2 gap) photoelectric) near4 (sens\$4 detect\$4))) and 73/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:57
-	14	((rotat\$4 turning) near4 (shaft rod bar)) near6 (groove furrow channel indent\$4 projection depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4)) and (distance spacing separation) and 73/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:59
-	1	JP63313007	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:58
-	1	"63313007"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:58
-	1	"62149938"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 11:58
-	1	JP62149938	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 12:59
-	648	33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
-	0	((rotat\$4 turning) near4 (shaft rod bar)) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap) and (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4)) and (distance spacing separation) and 33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/28 16:01
-	0	((lengthen\$4 elongat\$4 stretch\$4) near4 (shaft rod bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) and (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4) and sensor and 33/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 12:10
-	0	((lengthen\$4 elongat\$4 stretch\$4) near4 (shaft rod axial cylind\$6 bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) and (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4) and sensor and 33/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 13:34
-	11	((lengthen\$4 elongat\$4 stretch\$4) near4 (shaft rod axial cylind\$6 bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) and (sens\$4 measur\$4 determin\$4 detect\$4) and sensor and 33/\$6.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 12:51
-	0	63313007.URPN.	USPAT	2002/04/11 13:32

-	1	((length\$6 elongat\$4 stretch\$4) near4 (shaft rod axial cylind\$6 bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) near9 (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4) and sensor).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 13:45
-	1	((rotat\$5 torque) near4 (shaft rod axial cylind\$6 bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) near9 (sens\$4 measur\$4 determin\$4 detect\$4) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 detect\$4) and sensor).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 13:56
-	122	((rotat\$5 torque) near4 (shaft rod axial cylind\$6 bar) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap)) near9 (sens\$4 measur\$4 determin\$4 detect\$4) and (sens\$4 detect\$4)).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 14:00
-	2	("5440938" "5452616").PN.	USPAT	2002/04/11 14:08
-	0	5979248.URPN.	USPAT	2002/04/11 14:11
-	118	73/862.324.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
-	121	73/862.325.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:33
-	91	73/862.32\$.ccls. and (mark\$4 notch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 14:34
-	65	73/862.32\$.ccls. and (mark\$4 notch\$4) and ((sens\$4 detect\$4 determin\$4) near4 (shaft rod bar))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 14:22
-	3	4995257.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 14:23
-	6	("4305294" "4347748" "4352295" "4525068" "5001937" "5297044").PN.	USPAT	2002/04/11 14:24
-	6	5438882.URPN.	USPAT	2002/04/11 14:25
-	105	73/862.32\$.ccls. and (mark\$4 notch\$4 projection) and rotat\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 14:36
-	65	73/862.3\$.ccls. and (mark\$4 notch\$4 projection) and rotat\$4 and ((capacitive (eddy near2 current) photodetect\$4 photoelectric))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 17:09
-	1	4166383.URPN.	USPAT	2002/04/11 14:43
-	2	("2519378" "2811853").PN.	USPAT	2002/04/11 14:43
-	48	73/862.3\$.ccls. and (groove) and rotat\$4 and ((capacitive (eddy near2 current) photodetect\$4 photoelectric))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/04/11 17:10
-	5	("5315881" "5438882" "4712432" "4166383" "5723794").pn.	USPAT	2002/04/11 18:47

-	24	((rotat\$4 turning torsion) near4 (shaft rod bar) near4 (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 meter\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))))).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 11:27
-	1	((rotat\$4 turning torsion) near4 (shaft rod bar) near4 (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 meter\$4 determin\$4 detect\$4 sens\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4)) same ((interval time period) near4 ratio)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 17:37
-	34	((rotat\$4 turning torsion) near4 (shaft rod bar) near4 (groove furrow channel indent\$4 depression gap) and ((sens\$4 measur\$4 meter\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4)))and ((ratio relation divi\$4 proportion\$4 magnitud\$4) near4 (calculat\$4 determin\$4 estimat\$4 comput\$4 evaluat\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:44
-	120	73/862.324.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:37
-	129	73/862.325.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:37
-	676	33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:34
-	492	73/800.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:38
-	173	(73/862.324.ccls. 73/862.325.ccls. 33/706.ccls. 73/800.ccls.) and ((sens\$4 measur\$4 meter\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:44
-	24	((73/862.324.ccls. 73/862.325.ccls. 33/706.ccls. 73/800.ccls.) and ((sens\$4 measur\$4 meter\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 exten\$4 disten\$4 stretch\$4))) and ((ratio relation divi\$4 proportion\$4 magnitud\$4) near4 (calculat\$4 determin\$4 estimat\$4 comput\$4 evaluat\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/16 15:46
-	135	((elong\$4 lenghten\$4 stretch\$4 exten\$4 distance) near4 (shaft rod bar) same (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 distance exten\$4 disten\$4 stretch\$4) near6 (ratio degree))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/20 16:57
-	2	((elong\$4 lenghten\$4 stretch\$4 exten\$4 distance) near4 (shaft rod bar) same (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 distance exten\$4 disten\$4 stretch\$4) same ((ratio degree) near4 (intervar distance time space) near4 (signal pulse)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/20 17:07
-	13	((elong\$4 lenghten\$4 stretch\$4 exten\$4 distance) near4 (shaft rod bar) same (groove furrow channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 distance exten\$4 disten\$4 stretch\$4)) and ((ratio degree) near4 (intervar distance time space) near4 (signal pulse))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/20 17:20

-	20	((elong\$4 lenghten\$4 stretch\$4 exten\$4 distance) near4 (shaft rod bar) same (groove furrow mark\$4 channel indent\$4 depression gap)) and ((sens\$4 measur\$4 determin\$4 detect\$4) near4 (lengthening elongat\$4 distance exten\$4 disten\$4 stretch\$4)) and ((ratio degree) near4 (intervar distance time space) near4 (signal pulse))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/20 17:25
-	116	((rotat\$4 torsion\$4 turning torque) near4 (shaft rod bar)) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 transduc\$4 detect\$4)) and ((distance spacing elongat\$4 separation) near6 (sens\$4 measur\$4 determin\$4 measur\$4 meter\$4 estimat\$4 detect\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/28 16:10
-	173	((rotat\$4 torsion\$4 turning torque) near4 (shaft rod bar)) near6 (groove furrow channel mark\$4 indent\$4 projection depression gap slot) and ((eddy near2 current) capacitance photoelectric) near4 (sens\$4 transduc\$4 detect\$4)) and ((distance spacing elongat\$4 separation) near6 (sens\$4 measur\$4 determin\$4 measur\$4 meter\$4 estimat\$4 detect\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/28 16:11
-	520	73/800.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/07 11:34
-	705	33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 09:49
-	126	73/862.324.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 09:49
-	135	73/862.325.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 09:49
-	705	33/706.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 09:49